



DISTRICT WISE CLIMATE CHANGE INFORMATION FOR THE STATE OF TAMIL NADU TEMPERATURE PROJECTIONS FOR NAMAKKAL



12.1 About Namakkal

Namakkal district was separated from Salem district and started functioning from 01-01-1997. The district is bounded by Salem on the north, Karur on the south, Trichy and Salem on the east and Erode on the west. The northern portion of Namakkal are mountainous and the southern areas are plains. The geographical area of the district is 3363 km² which lies between 11°00' and 11°36' North latitudes and between 77°28' and 78°30' East longitudes.^{1,2}

12.2 Climate of Namakkal

The district enjoys a tropical climate. The hot weather begins early in March, the highest temperature being felt in April and May. Weather cools down progressively from about the middle of June and by December, the mean daily maximum temperature drops to 30.2°C, while the mean daily minimum drops to 19.2°C and 19.6°C in January.^{1,2}

12.3 Temperature Projections for Namakkal

The annual maximum and minimum temperature normal (1970-2000) of Namakkal district are 33.5°C and 17.8°C respectively.³ Projections of maximum temperature over Namakkal for the periods 2010-2040 (2020s), 2040-2070 (2050s) and 2070-2100 (2080s) with reference to the baseline (1970-2000) indicate an increase of **1.1°C**, **2.2°C** and **3.3°C** respectively. Similarly, the projections of minimum temperature for the same periods indicate an increase of **1.2°C**, **2.5°C** and **3.8°C** respectively.

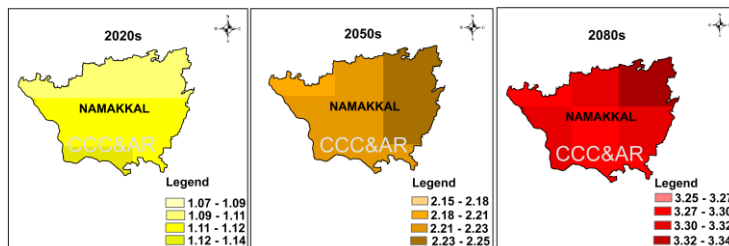


Fig 12.1 Changes in Max. Temperature for 2020s, 2050s & 2080s

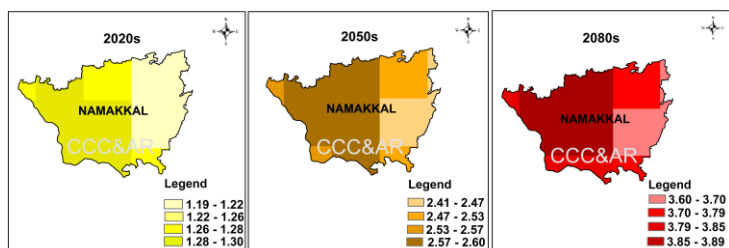


Fig 12.2 Changes in Min. Temperature for 2020s, 2050s & 2080s

Table 12.1 Changes in Temperature

Parameter	2020s	2050s	2080s
Maximum Temperature	+1.1°C	+2.2°C	+3.3°C
Minimum Temperature	+1.2°C	+2.5°C	+3.8°C

12.4 Key Findings

The average change of maximum and minimum temperature for Namakkal district are expected to increase by **3.3°C** and **3.8°C** respectively by the end of the century.

12.5 References

1. <http://www.namakkal.tn.nic.in/profile.html>
2. Central Ground Water Board 2008. District groundwater brochure Namakkal district, Tamil nadu. Central Ground Water Board South Eastern Coastal Region, Chennai. Available at : cgwb.gov.in/District_Profile/TamilNadu/Namakkal.pdf
3. IMD, 2013. Temperature of Namakkal District. Regional Meteorological Centre, Chennai.